[redacted] **Final** **FOCUS REPORT**
New Chemicals Program

PART I: BACKGROUND

Written By: KMB

FOCUS DATE: 9/13/2007 **FOCUS CHAIR:** D. Jones

COMPANY: Tracerco

CASE NUMBER(S): L07-0368 **through** **and**

PART II: SAT RESULTS

HEALTH: 1-2 **ECOTOX:** 1 **OCCUPATIONAL EXPOSURE:** 2-3A **CONSUMER EXPOSURE:** **ENVIRONMENTAL RELEASES:**

Additional SAT Information:

PART III: OTHER FACTORS

a. **PRODUCTION VOLUME:** 300 kg/yr

b. **PROD VOL OTHER:** ***Binding Option Marked***
Assessed at Production Volume

c. **USE:** Tracer to measure gas flow in deep oil/gas bearing geological strata

d. **REGULATORY HISTORY:** [redacted]

e. **TEST DATA:**

f. **IMPORTED** ☑ **MANUFACTURED** ☐ **BOTH** ☐

g. **MSDS:** ☑

h. **CATEGORY:** Neutral Organics **CATEGORY 2:**

PART IV: SUMMARY OF SAT ASSESSMENT

CASE NUMBER: L07-0368

FATE: Liquid with MP < 20 □C (E)
log Kow = 4.75 (E);
S = 0.343 mg/L at 25 □C (E)
VP = 36 torr at 25 □C (M)
BP = 101.7 □C (M)
H = 5.66E+4 (E)
log Koc = 5.94 (E)
log Fish BCF = 2.96 (E)
POTW removal (%) . 99 via sorption and stripping
Time for complete ultimate aerobic biodeg > mo
Sorption to soils/sediments = v.strong
Volatilization half-life from a standard river = 2 hrs
Volatilization half-life from a standard lake = 8 da
PBT Potential: P3B1T1

HEALTH: Expect poor absorption via all routes (pchem). In the Standard Review for the analogue [redacted] neurotoxicity was the only effect supported. Uncertain concern for cardiac sensitization.

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:
fish 96-h LC50 = * P
daphnid 48-h LC50 = * P
green algal 96-h EC50 = * P

fish chronic value = * P
daphnid ChV = * P
algal ChV = * P
Predictions are based on SARs for neutral organic chemicals; SAR chemical class = alkane-C8-cyclic-perF; MW400; liquid with mp = -16 C (P); log Kow = 7.5 (ACD); S < 0.001 mg/L at 20 C (P); pH7; effective concentrations based on 100% active ingredients, closed vessel with no head space, and mean measured concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L;
low concern for toxicity;
assessment factor = 10.0
concern concentration = *

PART V: RAD RISK RATIONALE: HUMAN HEALTH

PART VI: SUMMARY OF EXPOSURE/RELEASE

Use:
6 site, 6 workers, 1 d/yr
Inhalation: Vapor: 1.1e+1 mg/d (T), 6.8e+2 mg/d (W)
Dermal: 1.8e+3 mg/d (Liquid – 100%)

Release to Landfill: 1.8 kg/yr

Release to Air: 2.4e-2 (T), 4.7e-2 (W) kg/s/d 6 d/yr
LADD: 5.64e-7 mg/kg/d, ADD: 1.41e-6 mg/kg/d

Release via Incineration: 3.0e+2 kg/yr
LADD: 6.0e-8 mg/kg/d, ADD: 1.5e-7 mg/kg/d

PART VII: FOCUS DECISION AND RATIONALE

DISPOSITION: LVE Final Conditional Grant

RATIONALE: L07-0368 was given a final conditional grant based on binding to the production volume 300 kg/yr. Potential risks to human health were addressed by adequate dermal and respiratory protection. The Inhalation Monitoring Criteria for the Pilot Program were met for inhalation exposures from use. No Inhalation Monitoring is requested. Concerns for potential risks to the environment were low based on low toxicity.

P2REC: This case was nominated for P2 recognition based on its replacement of radioactive materials with inert materials in the work place. However, Focus Participants did not forward the P2REC based on the LVE chemical being a C8 perfluoro.

PART VIII: CCD DISPOSITION / DD

CCD: